

Nama : Nugroho Prihananto

NIM : L200170186

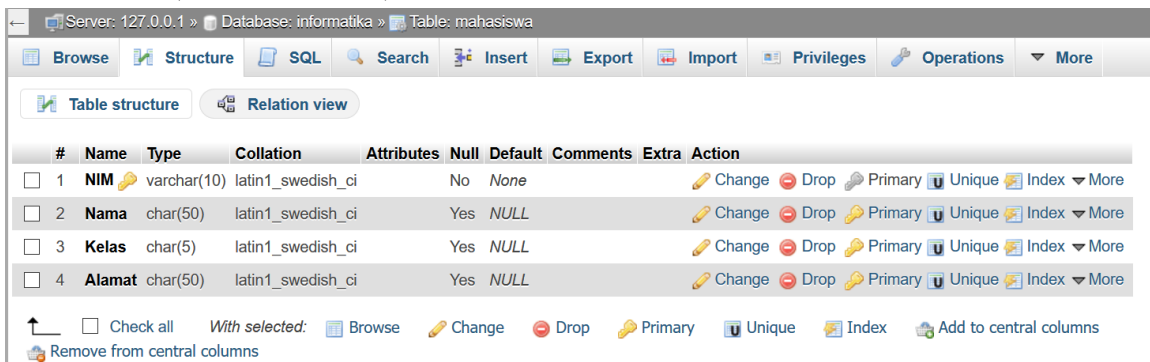
Kelas : G

MODUL 4

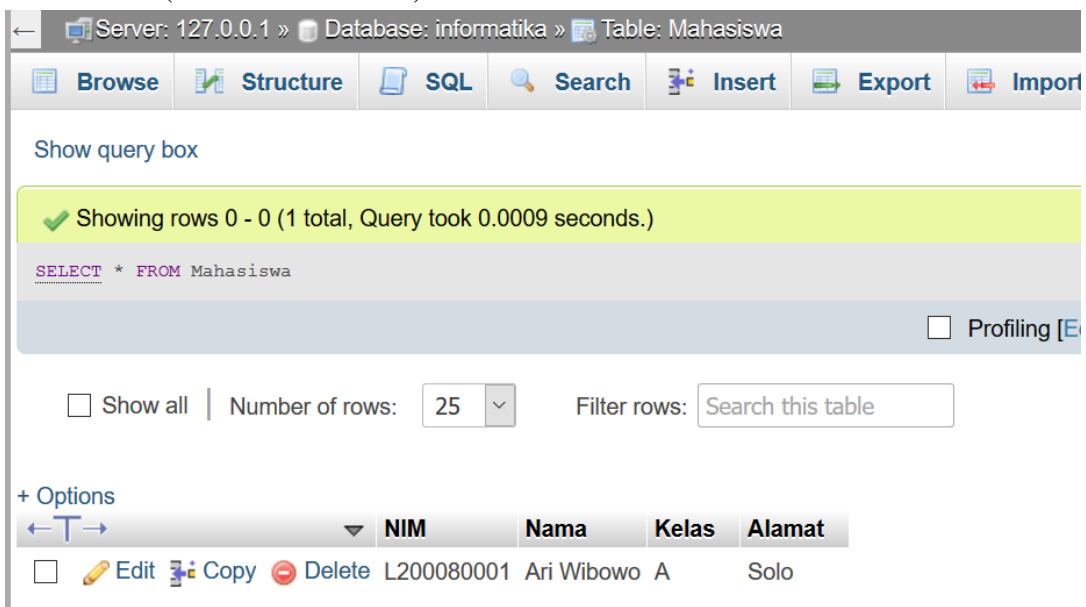
1. Percobaan 1 (Membuat Database)



2. Percobaan 2 (Membuat Tabel)



3. Percobaan 3 (Memasukkan Data)



Server: 127.0.0.1 » Database: informatika » Table: Mahasiswa

Browse Structure SQL Search Insert Export Import

Show query box

✓ Showing rows 0 - 1 (2 total, Query took 0.0010 seconds.)

`SELECT * FROM Mahasiswa`

☐ Profiling [Edit inline]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: No

+ Options

		NIM	Nama	Kelas	Alamat
<input type="checkbox"/>	Edit Copy Delete	L200080001	Ari Wibowo	A	Solo
<input type="checkbox"/>	Edit Copy Delete	L200080002	Agustina	B	NULL

↑ ☐ Check all With selected: Edit Copy Delete Export

4. Percobaan 4 (Mengubah Data)

Server: 127.0.0.1 » Database: informatika » Table: Mahasiswa

Browse Structure SQL Search Insert Export Import

Show query box

✓ Showing rows 0 - 1 (2 total, Query took 0.0009 seconds.)

`SELECT * FROM Mahasiswa`

☐ Profiling

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by

+ Options

		NIM	Nama	Kelas	Alamat
<input type="checkbox"/>	Edit Copy Delete	L200080001	Ari Wibowo	A	Solo
<input type="checkbox"/>	Edit Copy Delete	L200080002	Agustina Anggraini	B	NULL

↑ ☐ Check all With selected: Edit Copy Delete Export

5. Percobaan 5 (JOIN)

Membuat tabel nilai

Server: 127.0.0.1 » Database: informatika » Table: nilai

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	NIM	varchar(10)	latin1_swedish_ci	No	None			Change Drop Primary Unique Index More
<input type="checkbox"/>	2	Nama_MK	varchar(45)	latin1_swedish_ci	Yes	NULL			Change Drop Primary Unique Index More
<input type="checkbox"/>	3	Nilai_Angka	int(11)		Yes	NULL			Change Drop Primary Unique Index More
<input type="checkbox"/>	4	Nilai_Huruf	varchar(5)	latin1_swedish_ci	Yes	NULL			Change Drop Primary Unique Index More

☐ Check all With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Add to central columns](#)
[Remove from central columns](#)

Memasukkan data pada tabel nilai

Server: 127.0.0.1 » Database: informatika » Table: nilai

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	NIM	varchar(10)	latin1_swedish_ci	No	None			Change Drop Primary Unique Index More
<input type="checkbox"/>	2	Nama_MK	varchar(45)	latin1_swedish_ci	Yes	NULL			Change Drop Primary Unique Index More
<input type="checkbox"/>	3	Nilai_Angka	int(11)		Yes	NULL			Change Drop Primary Unique Index More
<input type="checkbox"/>	4	Nilai_Huruf	varchar(5)	latin1_swedish_ci	Yes	NULL			Change Drop Primary Unique Index More

☐ Check all With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Add to central columns](#)
[Remove from central columns](#)

Server: 127.0.0.1 » Database: informatika

Structure SQL Search Query Export Import Operations

Show query box

Showing rows 0 - 0 (1 total, Query took 0.0027 seconds.)

```
SELECT Mahasiswa.NIM, Mahasiswa>Nama, Nilai>Nama_MK, Nilai.Nilai_Angka, Nilai.Nilai_Huruf FROM (Maha
```

☐ Profiling [Edit inline]

☐ Show all | Number of rows: 25 Filter rows: Search this table

+ Options

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
L200080002	Agustina Anggraini	Kapita Selekt	60	BC

6. Percobaan 6 (Left Join)

Server: 127.0.0.1 » Database: informatika

Structure SQL Search Query Export Import

Show query box

Showing rows 0 - 1 (2 total, Query took 0.0018 seconds.)

```
SELECT Mahasiswa.NIM, Mahasiswa>Nama, Nilai>Nama_MK, Nilai.Nilai_Angka, Nilai.Nilai_Huru
```

Profile

Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
L200080001	Ari Wibowo	NULL	NULL	NULL
L200080002	Agustina Anggraini	Kapita Selekt	60	BC

7. Percobaan 7 (Right Join)

Server: 127.0.0.1 » Database: informatika

Structure SQL Search Query Export Import Operations Privileges Routines More

Show query box

Showing rows 0 - 2 (3 total, Query took 0.0134 seconds.)

```
SELECT Mahasiswa.NIM, Mahasiswa>Nama, Nilai>Nama_MK, Nilai.Nilai_Angka, Nilai.Nilai_Huruf FROM (Mahasiswa RIGHT JOIN Nilai ON Mahasiswa.NIM=Nilai.NIM)
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refr

Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

NIM	Nama	Nama_MK	Nilai_Angka	Nilai_Huruf
L200080002	Agustina Anggraini	Kapita Selekt	60	BC
NULL	NULL	Pemrograman Web	87	A
NULL	NULL	Pemrograman Web	90	A

8. Percobaan 8 (Fungsi AVG)

← Server: 127.0.0.1 » Database: informatika » Table: Nilai

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#)

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy a

✓ Showing rows 0 - 0 (1 total, Query took 0.0226 seconds.)

```
SELECT AVG(Nilai_Angka) 'Rata-rata Nilai' FROM Nilai
```

☐ Show all | Number of rows: 25 Filter rows: Search this table

+ Options

Rata-rata Nilai
79.0000

9. Percobaan 9 (Fungsi SUM)

← Server: 127.0.0.1 » Database: informatika » Table: Nilai

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#)

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit

✓ Showing rows 0 - 0 (1 total, Query took 0.0010 seconds.)

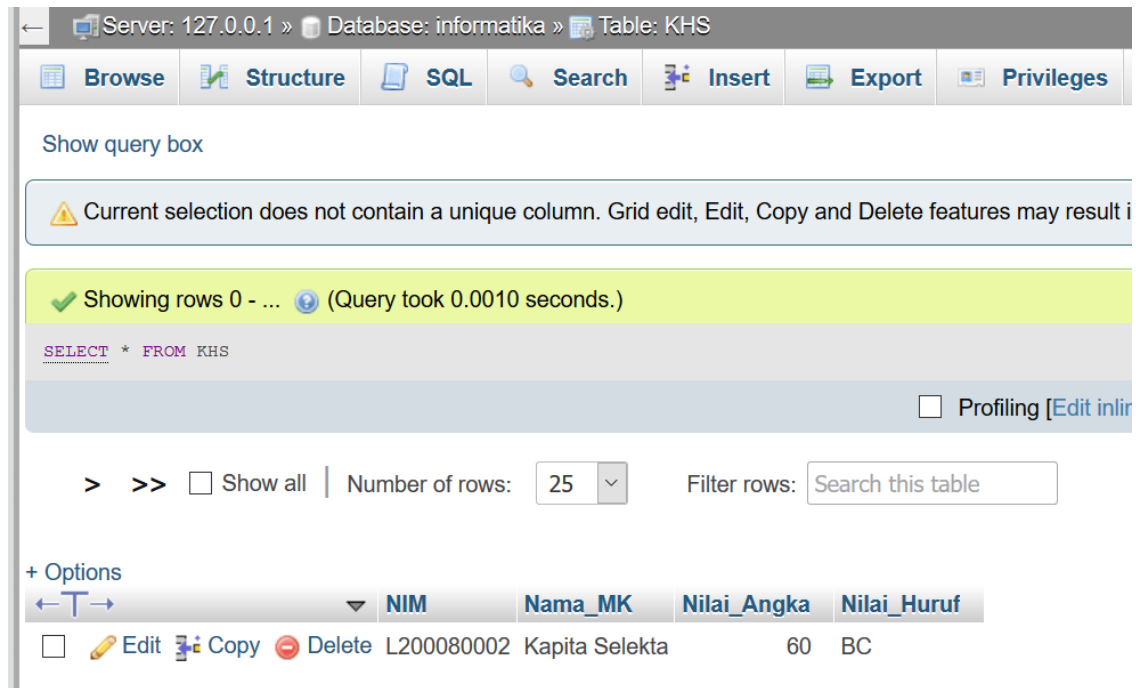
```
SELECT SUM(Nilai_Angka) 'Total Nilai' FROM Nilai
```

☐ Show all | Number of rows: 25 Filter rows: Search this table

+ Options

Total Nilai
237

10. Percobaan 10 (View)



TUGAS

1. Apa fungsi dari beberapa hal berikut:

- **SELECT** : Untuk mengambil data dari table dan mengembalikan data dalam bentuk tabel.
- **JOIN** : Penggabungan table yang dilakukan melalui kolom / key tertentu yang memiliki nilai terkait untuk mendapatkan satu set data dengan informasi lengkap.
- **LEFT JOIN** : Tabel dimana data akan ditampilkan secara keseluruhan pada tabel pertama (kiri) namun record pada tabel kedua (kanan) yang kosong akan ditampilkan dengan isi NULL.
- **RIGHT JOIN** : Menghasilkan baris data dari tabel kanan (nama tabel kedua/ Tabel Utama) yang tidak ada pasangan datanya/ Tidak Berelasi pada tabel kiri (nama tabel pertama).
- **AVG** : Untuk menghitung rata-rata suatu data yang memiliki tipe data integer.
- **SUM** : Untuk menghitung jumlah pada suatu data yang memiliki tipe data integer.

2. Mengisi alamat 'Sragen' pada tabel Mahasiswa (percobaan 3) pada nim L200080002.

←

Server: 127.0.0.1 » Database: informatika » Table: Mahasiswa

Browse

Structure

SQL

Search

Insert

Export

Import

Show query box

✓ Showing rows 0 - 1 (2 total, Query took 0.0012 seconds.)

SELECT *FROM Mahasiswa

☐ Profiling [E]

☐ Show all

|

Number of rows: 25

Filter rows:

Sort by key:

+ Options

←T→

▼

NIM

Nama

Kelas

Alamat

☐

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L200080001

Ari Wibowo

A

Solo

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Edit

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Delete

L200080002

Agustina Anggraini

B

Sragen